



**CRUDE OIL
PIPELINE
INJECTION
PUMPS**



**HEAVY DUTY
GEAR PUMPS**



EXPERIENCE

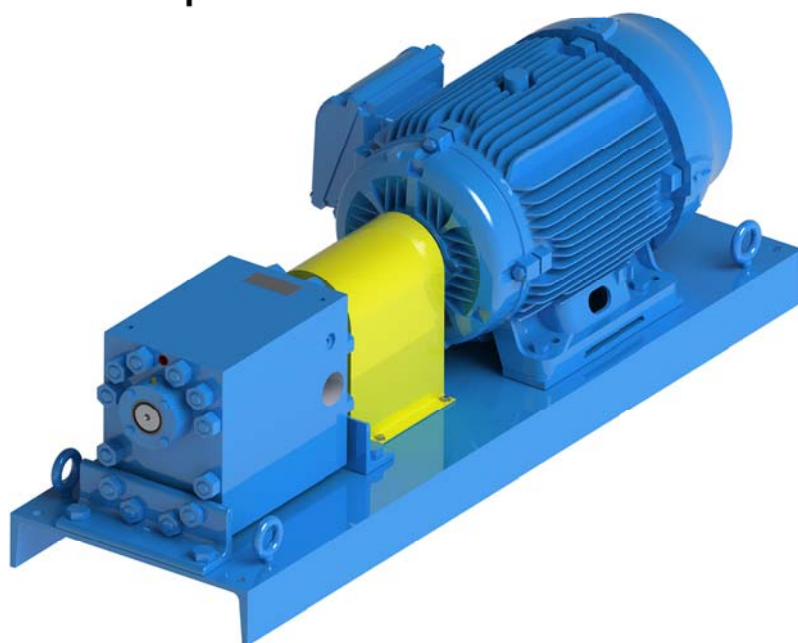
RELIABILITY

SAFETY



FEATURES & BENEFITS

- Discharge pressures up to 1440 PSI
- Very smooth pulse free flow
- Easily varied flow output
- No elastomers or stators
- Competitively priced
- Short lead times
- Small Footprint



For over 85 years Northern has been manufacturing the most reliable gear pump in the industry. We pride ourselves on regularly accomplishing for our customers what no other pump company can achieve. Northern's ability to produce discharge pressures up to 1440 psig and a broad turn-down ratio has made it the ideal pump for crude oil injection for pipeline applications. Whether the application is discharging from a LACT unit or providing boost for systems that have become inadequate do to increasing line pressures, Northern has performed flawlessly.

At approximately 30% of the size of a progressive cavity pump, Northern is so much more user friendly and there are no elastomer stators to swell or seize.



CRUDE OIL PIPELINE INJECTION PUMPS

EXPERIENCE
RELIABILITY
SAFETY

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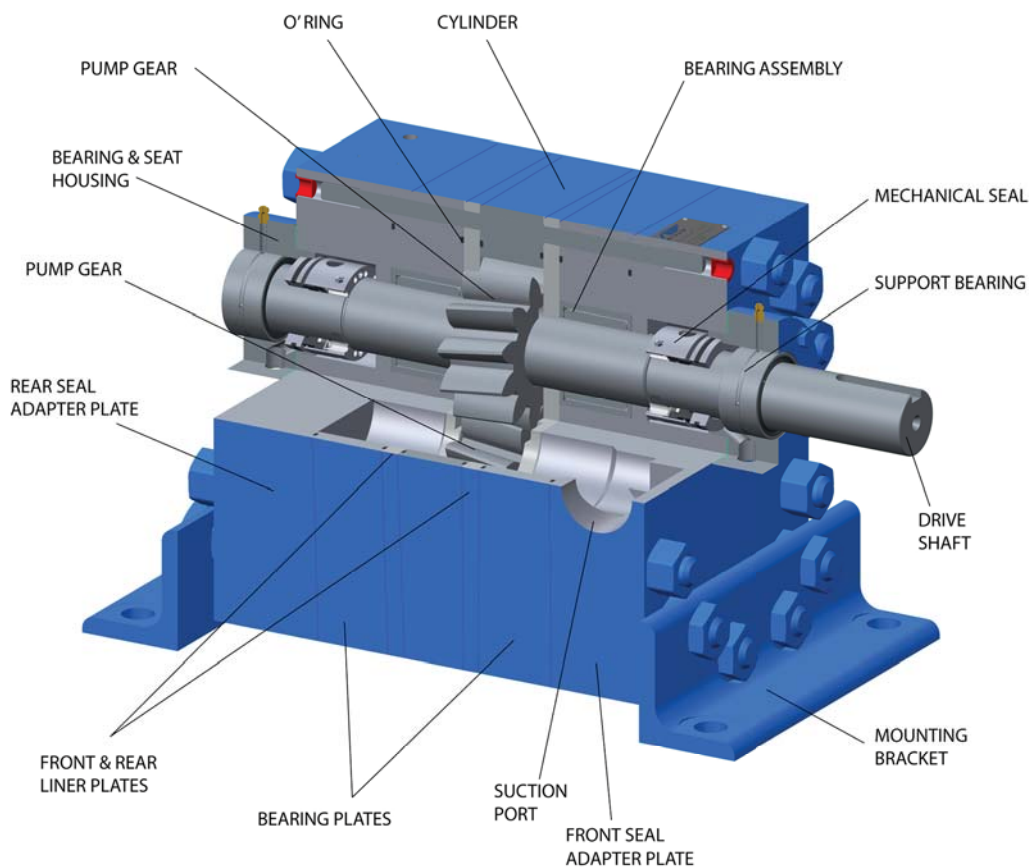
Specifications:

Flow: Up to 195 GPM / 6686 BPD

Pressure: Up to 1440 PSI

Pressure Differential	Flow Rates									
	4900-10		4900-15		4900-20		4900-25		4900-30	
PSI	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
200	64	2194	96	3291	129	4423	162	5554	195	6686
400	60	2057	92	3154	124	4251	156	5349	188	6446
600	56	1920	88	3017	119	4080	150	5143	-	-
800	52	1783	83	2846	114	3909	-	-	-	-
1000	49	1680	79	2709	-	-	-	-	-	-
Max Δ Pressure	1440 PSI		1165 PSI		875 PSI		700 PSI		580 PSI	

**Flow calculations are at 1750 RPM, assuming 4 cP crude oil.*



Materials of Construction:

Gears: Hardened and Ground 8620 Alloy Steel

Shafts: Hardened and Ground 8620 Alloy Steel

Bearings: AISI 52100 Roller Bearings

Shaft Seal: Type 8B-1 or 8-1 Mechanical Seal

Inlet/Outlet Connections: NPT or Flanged available.

Northern is 100% US manufactured which provides for quick deliveries and easy serviceability.

Contact us with your application today!



HIGH PRESSURE
DIFFERENTIAL

RUGGED
DESIGN

PRECISION
MANUFACTURING



Made in the USA



NORTHERN PUMP

Manufacturing the Highest Quality Pumps for over 85 years



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